

Submission of Manuscript for Review



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- Ramadian Ridho Illahi (ramadian)
- Inu (adrianus)

Messages

Note	From
Subject: Submission of Manuscript for Review: "Critique of the Formulation of Geometric Optics as an Abelian U(1) Gauge Theory: Evaluation of Assumptions, Numerical Validity, and Physical Implications" Dear Editor-in-Chief Lily Maysari Angraini, I am pleased to submit my manuscript titled "Critique of the Formulation of Geometric Optics as an Abelian U(1) Gauge Theory: Evaluation of Assumptions, Numerical Validity, and Physical Implications" for consideration in the Indonesian Physical Review. In this work, I present a detailed critique of the formulation of geometric optics within the framework of Abelian U(1) gauge theory, focusing on a critical evaluation of the underlying assumptions, numerical methods employed, and the broader physical implications. This article aims to clarify several points of contention within the current literature, particularly the application of gauge theory concepts to optical phenomena, which has led to various interpretations and predictions that deserve further scrutiny. The manuscript includes both theoretical analysis and numerical simulations to assess the validity of these approaches, which I believe will provide valuable insights to the community. I have made every effort to ensure the manuscript meets the journal's standards for clarity and rigor, and I hope that it will contribute to the ongoing dialogue in the field of theoretical physics, particularly in the areas of optics, gauge theory, and the intersections between them. Thank you for considering my submission. I look forward to the reviewers' feedback and hope that this manuscript will be deemed suitable for publication in your esteemed journal. Sincerely, Adrianus Inu Natalisanto, Universitas Mulawarman, adrianus@fmipa.unmul.ac.id  adrianus, 2. Check List (Submit this with your submission manuscript) (Adrianus Inu).pdf	adrianus2025-01-12 10:42 AM

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